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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,522	01/22/2002	Chase T. Tingley	CRESC-010XX	5980
75	90 05/03/2005		EXAM	INER
ANSEL M. SCHWARTZ ATTORNEY AT LAW			TAYLOR, NICHOLAS R	
201 N. CRAIG STREET			ART UNIT	PAPER NUMBER
SUITE 304			2141	
PITTSBURGH,	PA 15222			_

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Annihodian Ni	Annika mata)			
	Application No.	Applicant(s)			
055	10/054,522	TINGLEY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nicholas R. Taylor	2141			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>22 January 2002</u> .					
2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>22 January 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the atţached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
" See the attached detailed Office action for a ils	t or the certified copies not receive	e a .			
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>10/17/2002</u> . 6) Other:					
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	Action Summary P	art of Paper No./Mail Date 04222005			

DETAILED ACTION

1. Claims 1-15 have been examined and are rejected.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anello et al. (US Patent 6,195,356) and Frantz et al. (US Patent 5,959,990.)
- 4. As per claims 1, 8, and 15, Anello teaches a method for identifying a physical address associated with a virtual address, wherein said physical address is associated with a network interface of a network device, wherein said virtual address is also associated with said network device (Anello, column 4, lines 30-38), comprising:

forming a request message, said request message including said virtual address, said virtual network having a private address space including said virtual address;

transmitting said request message over a communication link;

receiving a response to said request message; said response including said physical address associated with said network interface of said network device; and

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storing said physical address of said network device associated with said virtual address in an entry in a data structure, wherein said entry further includes said virtual address (Anello, column 5, lines 15-62, and figure 3.)

However, Anello fails to teach the use of a virtual network identifier value, wherein said virtual network identifier value is stored in a field within a header of said request message separate from said virtual address, and said virtual network identifier value is associated with a virtual network. Frantz teaches the use of a virtual network identifier stored within the header field of a message (Frantz, column 8, lines 32-47 and figure 5B.)

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have combined Anello and Frantz to provide the virtual network identifier of Frantz in the system of Anello, because doing so would enable virtual network identification preservation in data transmitted across multiple virtual networks while supporting existing ethernet based data network infrastructures (Frantz, column 6, lines 1-5.)

5. As per claims 2 and 9, Anello-Frantz teaches the system further wherein said response to said request message includes said virtual address, and further comprising:

determining, in response to header information in said response to said request message, a virtual network number identifying said virtual network; and identifying said entry in said data structure in response to said virtual network number and said virtual address (Frantz, column 9, lines 22-35 and column 10, lines 5-9.)

6. As per claims 3 and 10, Anello-Frantz teaches the system further comprising:

receiving a subsequent packet; determining a virtual network number associated with said subsequent packet; comparing said virtual network number associated with said subsequent packet to said virtual network number identifying said virtual network; (Frantz, column 9, lines 22-35 and column 10, lines 5-9)

determining a destination address of said subsequent packet; comparing said destination address of said subsequent packet with said virtual address; and (Anello, column 5, lines 15-50 and figure 3)

forwarding said subsequent packet based on information contained in said entry in said data structure in the event that said virtual network number associated with said subsequent packet matches said virtual network number identifying said virtual network and said destination address of said subsequent packet matches said virtual address (Anello, column 5, line 5-62, and Frantz, column 9, lines 22-35 and column 10, lines 5-9.)

7. As per claims 4 and 11, Anello-Frantz teaches the system further comprising:

selecting, responsive to said virtual network number, a virtual router from a plurality of virtual routers; and wherein said forwarding of said packet is performed in response to said virtual router (Frantz, column 10, lines 15-28, wherein the next destination network device, including routers, is selected for forwarding.)

- 8. As per claims 5 and 12, Anello-Frantz teaches the system further comprising: selecting, responsive to receipt of said subsequent packet, a protocol task associated with a predetermined routing protocol; and wherein said forwarding of said packet is performed in response to said protocol task and said virtual router (Frantz, column 10, lines 15-28.)
- 9. As per claims 6 and 13, Anello-Frantz teaches the system further wherein said virtual address is a network layer address (Anello, column 5, lines 16-20.)
- As per claim 7, Anello-Frantz teaches the system further wherein said virtual address is a virtual Internet Protocol (IP) address (Anello, column 5, lines 16-20.)
- 11. As per claim 14, Anello-Frantz teaches the system further wherein said virtual address is a virtual Internet Protocol (IP) address (Anello, column 5, lines 16-20.)

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. This includes US Patents: 5,978,378, 5,812,533, and 6,061,334.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Taylor whose telephone number is (571) 272-3889. The examiner can normally be reached on Monday-Friday, 8:00am to 5:30pm, with alternating Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number

for the organization where this application or proceeding is assigned is (703) 305-3718.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Nicholas Taylor Examiner

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RUPAL DHARIA